

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): ~~Process~~ A process for producing foamable crosslinked polymers, ~~characterized in that~~ comprising polymerizing a mixture ~~composed of~~ comprising

- (A) 30-70 parts by weight of methacrylic acid,
30-60 parts by weight of methacrylonitrile,
0-30 parts by weight of other monomers having vinyl unsaturation,
- (B) 0.01-15 parts by weight of tert-butyl methacrylate and/or tert-butyl acrylate,
- (C) 0.01-10 parts by weight of blowing agent,
- (D) 0.01-10 parts by weight of crosslinking agent,
- (E) 0.01 to 2 parts by weight of polymerization initiators and
- (F) 0 to 20 parts by weight of conventional additives

~~is polymerized~~ in bulk to give a sheet which, ~~where appropriate,~~ is optionally heat-conditioned and then is foamed at temperatures of from 150 to 250°C.

Claim 2 (Currently Amended): ~~Process~~ The process for producing foamable crosslinked polymers according to Claim 1, ~~characterized in that~~ wherein 0.01-4.99 parts by weight of tert-butyl methacrylate and/or tert-butyl acrylate are used.

Claim 3 (Currently Amended): ~~Foamable~~ A foamable crosslinked polymer ~~composed of~~ comprising

- (A) 30-70 parts by weight of methacrylic acid,
30-60 parts by weight of methacrylonitrile,
0-30 parts by weight of other monomers having vinyl unsaturation,

- (B) 0.01-15 parts by weight of tert-butyl methacrylate and/or tert-butyl acrylate,
- (C) 0.01-10 parts by weight of blowing agent,
- (D) 0.01-10 parts by weight of crosslinking agent,
- (E) 0.01 to 2 parts by weight of polymerization initiators and
- (F) 0 to 20 parts by weight of conventional additives.

Claim 4 (Currently Amended): ~~Foamable~~ The foamable crosslinked polymer according to Claim 3, ~~characterized in that~~ wherein the polymer comprises 0.01-4.99 parts by weight of tert-butyl methacrylate and/or tert-butyl acrylate ~~are used~~.

Claim 5 (Currently Amended): ~~Poly(meth)acrylimide~~ A poly(meth)acrylimide foam, ~~characterized in that it~~ wherein the poly(meth)acrylimide foam is obtained via foaming of polymer according to the process of Claim 1 ~~or 2~~.

Claim 6 (Currently Amended): ~~Laminated~~ A laminated material comprising a layer of a poly(meth)acrylimide foam according to Claim 5.

Claim 7 (Currently Amended): ~~Motor~~ A motor vehicle, a rail vehicle, a watercraft, an aircraft[[,]] or a spacecraft, ~~characterized in that it is composed entirely or to some extent of a~~ comprising the poly(meth)acrylimide foam according to Claim 5.

Claim 8 (Currently Amended): ~~Machine~~ A machine component, ~~characterized in that it is composed entirely or to some extent of a~~ comprising the poly(meth)acrylimide foam according to Claim 5.

Claim 9 (Currently Amended): ~~Antenna, characterized in that it is composed entirely or to some extent of a~~ An antenna comprising the poly(meth)acrylimide foam according to Claim 5.

Claim 10 (Currently Amended): ~~X-ray table, characterized in that it is composed entirely or to some extent of a~~ An X-ray table comprising the poly(meth)acrylimide foam according to Claim 5.

Claim 11 (Currently Amended): ~~Loudspeaker, characterized in that it is composed entirely or to some extent of a~~ A load speaker comprising the poly(meth)acrylimide foam according to Claim 5.

Claim 12 (Currently Amended): ~~Pipe, characterized in that it is composed entirely or to some extent of a~~ A pipe comprising the poly(meth)acrylimide foam according to Claim 5.